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APPLICATION NO). FILING DATE	FIRST NAMED INVENTOR			
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/716,028

Applicant(s

Examiner

Lowman et al.

G. R. Ewoldt

Art Unit **1644**



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____3 ____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) X Responsive to communication(s) filed on Nov 17, 2000 2a) This action is FINAL. 2b) This action is non-final. 3)
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims 4) X Claim(s) 32-41 is/are pending in the application. 4a) Of the above, claim(s) ______ is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) X Claim(s) 32-41 is/are rejected. 7) Claim(s) _____ _____is/are objected to. 8) 🗌 Claims are subject to restriction and/or election requirement. **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on ______ is/are objected to by the Examiner. 11) ☐ The proposed drawing correction filed on ______ is: a) ☐ approved b) ☐ disapproved. 12) \square The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. § 119 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d). a) All b) Some* c) None of: 1. \square Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3.
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). Attachment(s) 15) Notice of References Cited (PTO-892) 18) Interview Summary (PTO-413) Paper No(s). 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) Notice of Informal Patent Application (PTO-152) 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 20) Other:

Serial No. 08/716,028 2 Art Unit 1644 DETAILED ACTION The reference in the first line of the specification must be updated to indicate that the instant application is a divisional application of parent application 09/109,207, now U.S. Patent No. 6,172,213. The following is a quotation of the first paragraph of 35 U.S.C. 112: The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention. 3. Claims 32-41 are rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or use the invention commensurate in scope with these claims. While being enabling for: a composition of an improved anti-IgE binding fragment in combination with an adjunct immunosuppressive agent comprising SEQ ID NOS:15 and 16 (e26), or SEQ ID NOS:17 and 18 (e27), the specification does not reasonably provide enablement for: a composition of an improved anti-IgE binding fragment in combination with an adjunct immunosuppressive agent comprising an anti-IgE antibody or IgE binding fragment that has at least one replaced aspartyl residue prone to isomerization replaced while retaining at least the same or greater affinity for IgE than the corresponding unimproved antibody or IgE binding fragment. Tables 1-9 and 15-18 disclose numerous clones and constructs that were prepared in an attempt to produce the claimed invention. Of the clones with the claimed limitation of a mutated aspartyl residue, only the e26 and e27 constructs function as claimed. The specification provides insufficient guidance in regard to how to prepare the binding proteins of the claimed invention other than by trial and error. Trial and error approaches alone, however, provide an insufficient expectation of success (as demonstrated by the numerous constructs disclosed in the specification that do not function as claimed) and are thus

Serial No. 08/716,028 3 Art Unit 1644 considered to be highly unpredictable and requiring of undue experimentation. In re Wands, 858 F.2d at 737, 8 USPQ2d at 1404 (Fed. Cir. 1988) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute. Thus, in view of the quantity of experimentation necessary, the lack of working examples other than e26 and e27, the unpredictability of the art, and the lack of sufficient guidance in the specification regarding both how to make the claimed invention, it would take undue trials and errors to practice the invention of the instant claims. Claims 32-41 are rejected under 35 U.S.C. 112, first 4. paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor, at the time the application was filed, had possession of the claimed invention. There is insufficient written description to show that Applicant was in possession of: A) a composition of an improved anti-IgE binding fragment in combination with an adjunct immunosuppressive agent comprising an anti-IgE antibody or IgE binding fragment that has at least one replaced aspartyl residue prone to isomerization replaced while retaining at least the same or greater affinity for IgE than the corresponding unimproved antibody or IgE binding fragment, other than e26 or e27 (Claim 32), B) an immunosuppressive agent comprising an anti-idiotypic antibody which bind MHC antigens or fragments (Claim 34), C) an immunosuppressive agent comprising cytokine or cytokine receptor antagonists, D) an immunosuppressive agent comprising anti-lymphocyte globulin (Claim 35), E) an immunosuppressive agent comprising a soluble peptide containing a LFA-3 binding domain (Claim 36), F) an immunosuppressive agent comprising a T cell receptor (Claim 36), G) an immunosuppressive agent comprising T cell receptor antibodies (Claim 36). Regarding A), the specification discloses only the species e26 and e27, while Claim 32 recites an entire genus. Said genus, however, has not been demonstrated to exist and thus cannot be adequately described. As such, one of skill in the art would conclude that the specification fails to disclose a representative number of species to describe the claimed genus.

examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196. Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should

be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center telephone number is (703) 305-3014. Patrier INOlan

G.R. Ewoldt, Ph.D. Patent Examiner Technology Center 1600 April 30, 2001

Patrick J. Nolan, Ph.D.

Primary Examiner

Technology Center 1600